October 31, 2014

Shimon Mizrahi
Rainier Commons LLC
918 S. Horton Street, Suite 1018
Seattle, WA 98134

Subject: **Catch Basin Sampling for IPWP1- Work for Buildings 10, 11**
Verification Sampling- MH6
Aqueous Sampling
Rainier Commons, LLC

Site Address: 3100 Airport Way S, Seattle, WA

NVL Project#: 2012-494

Dear Mr. Mizrahi:

Rainier Commons, LLC retained NVL Laboratories to conduct the sampling at their Old Rainier Brewery site located at 3100 Airport Way South, Seattle, Washington and this letter has been prepared to convey the results.

NVL Labs conducted verification sampling to follow-up on previous aqueous sampling result from Manhole 6. The sample was collect on October 23rd, 2014, at roughly 1:30 PM. Moderate precipitation had occurred earlier that day (http://www.nws.noaa.gov). NVL Labs proceeded to open and inspect the manhole referred to as MH6 on the attached figure (attachment A). This collection point is located southwest of buildings 10 and 11, where the work associated with the Phase I IPWP was nearing completion.

At the time of the sampling, following removal of the storm drain grates, MH6 was found to have adequate water for sampling but inadequate sediment. Accordingly, an aqueous sample but no sediment sample was collected from MH6. Photos of the exposed manhole were taken to document its condition. (See Attachment B)

Sampling Location	Stormwater Present?	Aqueous Sample Collected?	Sediment Present?	Sediment Sample Collected?
Man Hole 6	Yes	Yes	No	No

Samples were collected as per the Condition 6: Catch Basin Sampling Plan for IPWP1.

The samples were transported to Fremont Analytical Laboratories under a chain-of-custody protocol before being analyzed for PCBs by EPA Method 8082.

Attached to this letter is a copy of the laboratory report dated October 29th, 2014, and the site plan that shows the sample locations. (Attachments C and A)

Aqueous Sample Results:

Laboratory analysis of the aqueous sample from MH6 found the sample to be Non-Detect for PCB Arochlors. The aqueous sample from MH6 was found to have PCB concentrations below the aqueous screening limit of 0.1 ug/L for total PCB Arochlors.

Sampling Location	Aqueous PCB Screening Limit (Total Arochors)	Sample Result	Result Above Screening Limit?
Manhole 6	.1 ug/L	ND	NO

ND = Non-Detect

Note: In the attached Fremont Analytical Labs Batch No. 1410265, the sample for Manhole 6 is labeled as “CB6”. The correct designation for the sample collection point is “MH6”.

Prepared By

Marcus Gladden
Industrial Hygienist
NVL Laboratories

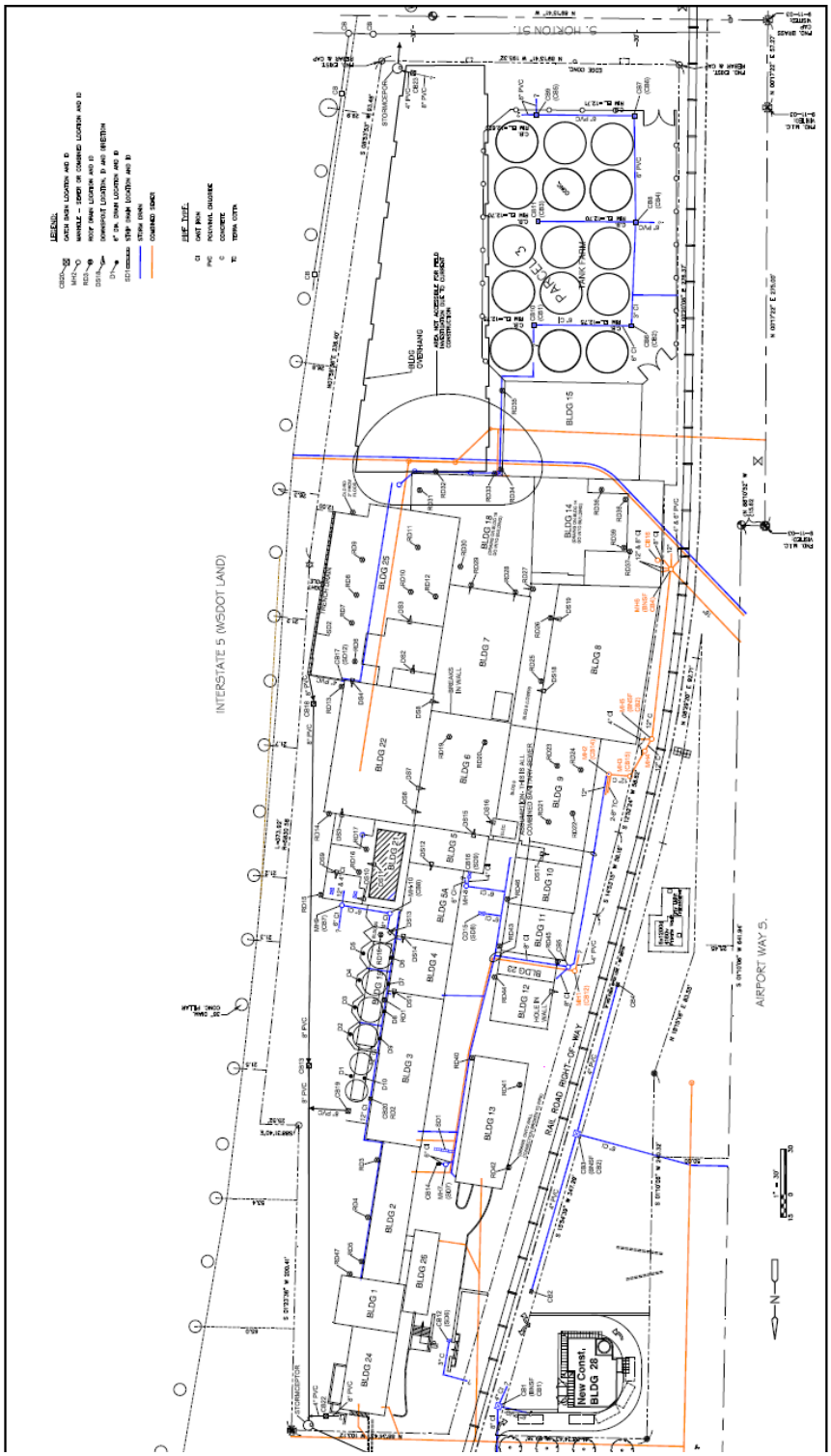
Reviewed By

Munaf Khan
Project Manager
Laboratory Director / President

Attachments:

A: Site Map with Sample Locations
B: Site Observation Photos
C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1410265

Attachment A: Site Map



Attachment B: Site Observation Photos

Manhole 6
The black filter sock seen here was observed to be intact that the time of sampling

Manhole 6
Inadequate sediment for sampling was found in catch basin 3. Adequate water was present and an aqueous sample was collected here.

Sampling
A telescoping pole with disposable dipper beakers was used to collect aqueous samples from MH6.

Attachment C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1410265

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

NVL Labs, Inc.
Munaf Khan
4708 Aurora Ave. N.
Seattle, WA 98103

RE: RC
Lab ID: 1410265

October 29, 2014

Attention Munaf Khan:

Fremont Analytical, Inc. received 1 sample(s) on 10/23/2014 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President

CC:
Marcus Gladden

RCLLC 0004840

Date: *10/29/2014*

CLIENT: NVL Labs, Inc.
Project: RC
Lab Order: 1410265

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410265-001	102314-CB6	10/23/2014 1:30 PM	10/23/2014 2:15 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1410265**
Date: **10/29/2014**

CLIENT: NVL Labs, Inc.
Project: RC

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1410265-001A) required Acid Cleanup Procedure (Using Method No 3665A).
Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1410265-001A) required Florisil Cleanup Procedure (Using Method No 3620C).

Analytical Report

WO#: **1410265**
Date Reported: **10/29/2014**

Client: NVL Labs, Inc.
Collection Date: 10/23/2014 1:30:00 PM
Project: RC
Lab ID: 1410265-001
Matrix: Water
Client Sample ID: 102314-CB6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls (PCB) by EPA 8082				Batch ID: 9103		Analyst: NG
Aroclor 1016	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1221	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1232	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1242	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1248	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1254	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1260	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1262	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Aroclor 1268	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Total PCBs	ND	0.200		µg/L	2	10/27/2014 3:08:00 PM
Surr: Decachlorobiphenyl	55.0	45.1-140		%REC	2	10/27/2014 3:08:00 PM
Surr: Tetrachloro-m-xylene	80.5	27.4-132		%REC	2	10/27/2014 3:08:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410265
CLIENT: NVL Labs, Inc.
Project: RC

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **MB-9103**	SampType: **MBLK**	Units: **µg/L**	Prep Date: **10/24/2014**	RunNo: **17635**
Client ID: **MBLKW**	Batch ID: **9103**		Analysis Date: **10/27/2014**	SeqNo: **351403**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.200									
Aroclor 1221	ND	0.200									
Aroclor 1232	ND	0.200									
Aroclor 1242	ND	0.200									
Aroclor 1248	ND	0.200									
Aroclor 1254	ND	0.200									
Aroclor 1260	ND	0.200									
Aroclor 1262	ND	0.200									
Aroclor 1268	ND	0.200									
Total PCBs	ND	0.200									
Surr: Decachlorobiphenyl	212		400.0		53.1	45.1	140				
Surr: Tetrachloro-m-xylene	261		400.0		65.2	30.1	116				

Sample ID: **LCS-9103**	SampType: **LCS**	Units: **µg/L**	Prep Date: **10/24/2014**	RunNo: **17635**
Client ID: **LCSW**	Batch ID: **9103**		Analysis Date: **10/27/2014**	SeqNo: **351404**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.92	0.200	2.000	0	95.9	38.2	129				
Aroclor 1260	1.98	0.200	2.000	0	98.8	43.3	126				
Surr: Decachlorobiphenyl	280		400.0		70.0	45.1	140				
Surr: Tetrachloro-m-xylene	255		400.0		63.6	30.1	116				

Sample ID: **LCSD-9103**	SampType: **LCSD**	Units: **µg/L**	Prep Date: **10/24/2014**	RunNo: **17635**
Client ID: **LCSW02**	Batch ID: **9103**		Analysis Date: **10/27/2014**	SeqNo: **351449**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.62	0.200	2.000	0	80.8	38.2	129	1.580	2.23	30	
Aroclor 1260	1.63	0.200	2.000	0	81.4	43.3	126	1.634	0.343	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1410265
CLIENT: NVL Labs, Inc.
Project: RC

QC SUMMARY REPORT

Polychlorinated Biphenyls (PCB) by EPA 8082

Sample ID: **LCSD-9103**	SampType: **LCSD**	Units: **µg/L**	Prep Date: **10/24/2014**	RunNo: **17635**
Client ID: **LCSW02**	Batch ID: **9103**		Analysis Date: **10/27/2014**	SeqNo: **351449**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	294		400.0		73.4	45.1	140		0		
Surr: Tetrachloro-m-xylene	269		400.0		67.2	30.1	116		0		

Sample ID: **1410265-001AMS**	SampType: **MS**	Units: **µg/L**	Prep Date: **10/24/2014**	RunNo: **17635**
Client ID: **102314-CB6**	Batch ID: **9103**		Analysis Date: **10/27/2014**	SeqNo: **353285**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.85	0.400	2.000	0	92.4	45.5	118				
Aroclor 1260	2.58	0.400	2.000	0	129	50.8	129				
Surr: Decachlorobiphenyl	234		400.0		58.6	45.1	140				
Surr: Tetrachloro-m-xylene	345		400.0		86.2	30.1	116				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Sample Log-In Check List

Client Name:	**NVL**	Work Order Number:	**1410265**
Logged by:	**Clare Griggs**	Date Received:	**10/23/2014 2:15:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all coolers received at a temperature of >0°C to 10.0°C	Yes ☑	No ☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is the headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☐	No ☑	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Sample label reads "102314-MH6"; however, COC reads "102314-CB6".

Item Information

Item #	Temp ºC	Condition
Cooler	9.1	Good
Sample	13.2	

Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N. Tel: 206-352-3790
Seattle, WA 98103 Fax: 206-352-7178

Laboratory Project No (internal): 1410265

Date: 10/23/14 Page: 1 of: 1

Client: NUL LABS
Address: 4708 AURORA AVE N
City, State, Zip SEATTLE, WA, 98103 Tel: 206-547-0100
Reports To (PM): MUNAF K, MARWS G Fax:

Project Name: RC
Location: 3100 AIRPORT WAY S SEATTLE, WA
Collected by: MARWS GLADDEN
Email: MUNAF.K@NULLABS.COM MARWS.G@NULLABS.COM Project No: 2012-494

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SEMI VOC (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments/Depth
1	102314 - CB6	10/23/14	13:30	AQ								V							
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Special Remarks:

Relinquished	Date/Time	Received	Date/Time
x	10/23/14 14:15	x	10/23 14:15
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT -> SameDay^ NextDay^ 2 Day 3 Day (STD)
^Please coordinate with the lab in advance

Distribution: White - Lab, Yellow - File, Pink - Originator